



ENERGY STORAGE SYSTEM

PDS DC Converter



Product introduction:

The PDS400KW DC-DC converter converts the direct current of the photovoltaic module array into direct current that can charge the battery. Adopt single-stage topology, wide photovoltaic voltage input range with 250-650V; output voltage range to battery with 600-900V with MPPT photovoltaic maximum power tracking function.

Performance characteristics

For the DC conversion protection strategy, it meets the relevant standards of the photovoltaic industry, and has but is not limited to the following protection functions:

- PV input overvoltage protection
- PV input under-voltage protection
- Output overload protection
- Output current control
- Output short circuit protection
- DC reverse protection

At the same time, according to the BMS requirements of different batteries, the battery side charging status is protected according to its control strategy, including overcharge, overdischarge, capacity protection, etc.

Model	PDS
Rated power (KW)	400
Low voltage side connected to PV input	
HVDC bus voltage (V)	750 (Low side voltage+40~850)
HVDC bus current (A)	67*8 (maximum 100*8)
DC bus power (KW)	50*8
Low voltage charge and discharge voltage (V)	500 (250-840)
Low voltage charge and discharge current (A)	100*8 (maximum 120*8)
The low voltage side is connected to the battery input	
HVDC bus voltage (V)	750 (Low side voltage+40~850)
HVDC bus current (A)	67*8 (maximum 100*8)
DC bus power (KW)	50*8
Low voltage charge and discharge voltage (V)	500 (250-840)
Low voltage charge and discharge current (A)	100*8 (maximum 120*8)
System parameters	
Protection	Protection for over temperature, overload, emergency stop, fan failure
Maximum efficiency (refer to the efficiency curve)	98.6%
Isolation	No isolation
Refrigeration	Forced air cooling
Noise	≤ 70dB
Communication method	RS485/CAN/Ethernet network port
Operating temperature (°C)	-20~50 (Derating above 45)
Humidity	0~95% (No condensation)
Altitude (m)	3000
Protection class	IP20
Size (D*W*H) mm	800*1100*2060
Weight (KG)	600